# F-35 SHORT TAKE-OFF VERTICAL LANDING JOINT STRIKE FIGHTER

## DESCRIPTION

The Short Take off and Vertical Landing Joint Strike Fighter (STOVL JSF) is a single-engine, stealthy, supersonic, strike-fighter aircraft capable of short take-offs and vertical landings. JSF will combine the basing flexibility of the AV-8 with the multi-role capabilities, speed, and maneuverability of the F/A-18 to fulfill both the air-to-ground and air-to-air

requirements of the Marine Corps. The aircraft will have very low radar cross-section and provide superior capabilities over legacy aircraft in the areas of survivability, lethality, and supportability. The F-35 will replace the Marine Corps' AV-8B and F/A-18A/C/D fleets.

## OPERATIONAL IMPACT

The STOVL JSF provides a multi-mission offensive air support and an offensive/defensive anti-air capability. The STOVL JSF also provides MAGTFs with a platform capable of tactical air control and tactical reconnaissance, and the destruction of enemy air defenses.

## PROGRAM STATUS

The JSF is a joint program with the Air Force, Navy, Marine Corps, and the United Kingdom as level I partners. Participating as level II partners are Italy and the Netherlands, while level III partners include Canada, Denmark, Norway, Turkey, and Australia. Currently, the program is in the systems development and demonstration (SDD) phase scheduled to last until 2012. The program is scheduled to conduct the Critical Design Review (CDR) in 2004. Additionally, General Electric is developing an alternate propulsion program known as the F136 engine, which conducted a successful CDR June 2003.

| PROCUREMENT PROFILE: | FY05 | FY06 |
|---|---|---|
| Quantity: | 0 | 0 |

**DEVELOPER/MANUFACTURER:**

Air Vehicle: Lockheed Martin/Northrop Grumman/British Aerospace Engineering
Propulsion: Pratt & Whitney and General Electric